

CLAIMS

1. A telecommunications network for mobile users, said telecommunications network for mobile users (UNET) comprising a user subsystem (STU) and a transport subsystem (STT), associated by means of an enhanced access subsystem (STA+), which has a general user-access communication interface (Uu) and a transport-access communication interface (Iu)) respectively facing the subsystem (STU) and the transport subsystem (STT), being apt to ensure an exchange of information flows (TS) between said subsystems, said enhanced access subsystem (STA+) letting the network for mobile services UNET recognize as user subsystems (STU) also the fixed terminals associated to said enhanced access subsystem (STA+) through cable connections or anyway without taking recourse to the use of radio channels on frequency bands assigned in exclusivity or under licence.
2. A telecommunications network for mobile users, according to claim 1, characterized in that said enhanced access subsystem (STA+) required for interconnecting the user subsystems (STU) to the transport subsystem (STT) has cable base stations (SCB) – besides the radio base stations (SRB) according to common art – among its components, which associate to the radio network controllers (CRR) through an interface Iub and to general user subsystems, making them appear like user subsystems (STU) to the radio network controllers (CRR) and other components of the transport subsystem (STT).
3. A telecommunications network for mobile users, according to claims 1 and 2, characterized in that the enhanced access subsystem (STA) required for interconnecting the user subsystems (STU) to the transport subsystem (STT) has radio network controllers (CRR) according to prior art among its components, which associate to the transport subsystem (STT) through an interface Iub and control the various base stations (radio base stations SRB and cable base stations SCB) through the special controller-stations interface Iub
4. A telecommunications network for mobile users, according to one or more of the previous claims, characterized in that said cable base stations (SCB) interconnecting to the user subsystems without the use of radio channels or anyway without utilizing radio resources on frequencies granted in exclusivity or under licence, can manage one or more bi-directional or mono-directional control channels, said control channels being conform or not

to standardized channels in the frame of any competent organization.

5. A telecommunications network for mobile users, according to one or more of the previous claims, characterized in that the telecommunications network for mobile users (UNET) is a network according to UMTS standard (Universal Mobile Telecommunications System) and said enhanced access subsystem (STA+) is including UTRAN performances (UMTS Terrestrial Radio Access Network).
6. A telecommunications network for mobile users, according to one or more of the previous claims, characterized in that said telecommunications network for mobile users (UNET) is a network according to a standard for mobile telecommunications of the third generation pertaining to the family IMT2000.
7. A method for obtaining an alternative access to the cellular radio coverage for a telecommunications network for mobile users, characterized in that it has made available fixed access points or anyway access points without the use of radio resources on frequencies granted in exclusivity or under licence, in order to better manage the restricted radio resources.
8. A telecommunications network for mobile users and/or base station and/or network radio controller and/or method for sending information according to the teachings contained in the description herein and annexed drawings.

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